

NEUROPTERA.

Family ODONATA

Lestes simplex Hagen.

One specimen.

One specimen of the genus *Libellula*.

LEPIDOPTERA.

Family NYMPHALIDÆ.

Anartia jatrophæ Lin. (*Pap. j.*), Mus. L. U. R., p. 289.

Two defective specimens labeled "Port Castries, St. Lucia."

Family SPHINGIDÆ.

A larva collected that belongs here.

HYMENOPTERA.

Family FORMICIDÆ.

Numerous male specimens of an undetermined specie of the genus *Lasius*. A portion of a nest of a tree-ant was also taken.

Family POMPILIDÆ.

Pepsis ornata Say.

One specimen:

Family APIDÆ.

One specimen of the genus *Xylocopa*

ARACHNIDA.

BY GEORGE MARX, M. D.

The steamer *Albatross* collected *Arachnida* at the following five principal points:

(1) Abrolhos Islands, off the Brazilian coast, December 28.

(2) At the Straits of Magellan at three points: Gregory Bay, January 18; Laredo Bay, January 22; and Sandy Point, January 27.

(3) At the Galapagos Islands, as follows: Chatham Island, April 4; Charles Island, April 8; Albemarle Island, April 10; James Island, April 11; Indefatigable Island, April 12; and Duncan Island, April 13.

(4) In Lower California: St. Margarita Island, May 2; Balenas Bay, May 3; and Cerros Island, May 5.

(5) In California: Clemente Island.

The total result of these collections was thirty-seven species of *Aranææ* and six species of *Scorpions*.

The following list contains the *Araneæ*, arranged according to their classification:

Family EPEIRIDÆ.

1. *Gasteracantha insulana* Thor.
2. *Gasteracantha caneriformis* Lin.
3. *Gasteracantha velitaria* Koch.
4. *Argiope argentata* Fabr.
5. *Epeira cooksonii* Butler.
6. *Epeira flaviventris* Nicolet.
7. *Epeira labyrinthea* Hentz.

Family THERIDIDÆ.

8. *Linyphia* (*Dyplostylum*) *magellanii* nov. sp.
9. *Latrodectus scelio* Thor.
10. *Latrodectus mactans* Walk.
11. *Latrodectus apicalis* Butler.

Family SCYTODIDÆ.

12. *Loxosecles galapagoensis* sp. nov.

Family THOMISIDÆ.

13. *Thanatns antarcticus* sp. nov.

Family SPARASSIDÆ.

14. *Selenops aissa* Walk.
15. *Heteropoda venatoria* Lin.

Family AGALENIDÆ.

16. *Agalena* (immature).
17. *Tegenaria morsitans* sp. nov.

Family AMAUROBIDÆ.

18. *Amaurobius frigidus* sp. nov.

Family DRASSIDÆ.

19. *Drassus pacificus* sp. nov.
20. *Gayenna rosea* sp. nov.
21. *Clubiona brevipes* sp. nov.
22. *Zora californica* sp. nov.
23. *Zora latithorax* sp. nov.

Family LYCOSIDÆ.

24. *Lycosa fallax* sp. nov.
25. *Lycosa fuegiana* sp. nov.
26. *Lycosa ornata* sp. nov.

Family CTENIDÆ.

27. *Ctenus obscurus* sp. nov.

Family ATTIDÆ.

28. *Phidippus morsitans* (found on board of the ship).
29. *Menemerus galapagoensis* sp. nov.

Family DYSDERIDÆ.

30. *Segestria galapagoensis* sp. nov.

Family FILISTATIDÆ.

31. *Filistata capitata* Hentz.
32. *Filistata hibernalis* Hentz.
33. *Filistata oceanica* sp. nov.

Family THERAPHOSIDÆ.

34. *Cyclosternum schmardæ* Auss.
35. *Cyrtachenius similis* L. Koch.
36. *Lasiadora striatipes* Auss.
37. *Eurypelma rapax* Auss.

The spiders collected at the Abrolhos Islands bear a general South American character; they are eight species, five of which are known and have been previously described; one, the *Epeira labyrinthea* Hentz, is of special interest, for it is an inmate of the United States, where it is found as high north as the State of Maine, and is, as far as our knowledge of the geographical distribution of *Arachnida* in the United States goes, confined to the Atlantic States, from Maine to Florida. It has also been collected on the Bermuda and West India Islands and in California.

The following are the names of the spiders collected at Abrolhos Islands:

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| <ol style="list-style-type: none"> 1. <i>Epeira labyrinthea</i> Hentz. 2. <i>Cyclosternum schmardæ</i> Auss. 3. <i>Cyrtachenius similis</i> L. Koch. 4. <i>Lasiadora striatipes</i> Auss. | <ol style="list-style-type: none"> 5. <i>Eurypelma rapax</i> Auss. 6. <i>Tegenaria morsitans</i> sp. nov. 7. <i>Zora latithorax</i> sp. nov. 8. <i>Ctenus obscurus</i> sp. nov. |
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The spiders collected at the STRAITS OF MAGELLAN represent a new and strange fauna, and, although on two former occasions collections have been made in the same region and the material described, we find in our material that seven out of the ten species are new to science. The three already described are *Epeira flaviventris* Nic., which has been described by Simon from a collection from Cape Horn and which was originally described by Nicolet from Chili in Gay's *Hist. fisica y polit. de Chili*. We find here also the *Epeira labyrinthea* Hentz. mentioned above. It is hardly recognizable, for its color has greatly changed; the dorsal folium is nearly obliterated, only two lighter spots at each side remain, and the whole body is covered with a long and dense pubescence. The third known species is the cosmopolitan form *Latrodectus mactans* Walek., occurring, as it seems, everywhere around the globe below a certain degree of latitude. The following is the list of species from the Magellan Straits:

a. Gregory Bay:

1. *Epeira flaviventris* Nic.
2. *Latrodectus mactans* Walek.
3. *Amaurobius frigidus* sp. nov.
4. *Lycosa ornata* sp. nov.
5. *Thanatus antarcticus* sp. nov.
6. *Clubonia brevipes* sp. nov.

b. Sandy Point:

7. *Lycosa fuegiana* sp. nov.

Sandy Point—Continued.

8. *Linyphia magellanii* sp. nov.
- Latrodectus mactans* Walek.

c. Laredo Bay:

9. *Guyenna rosea* sp. nov.
10. *Epeira labyrinthea* Hentz.
- Lycosa fuegiana*.
- Epeira flaviventris*.

The collection from the GALAPAGOS consists, unfortunately, of only ten species taken in the nine days the *Albatross* was present in that region. These ten species are representatives of eight families and therefore suggestive of a rich fauna. What a pity that more time could not be spent in collecting at such interesting points; but we are glad for the opportunity of a mere glimpse at the very interesting fauna of that group of islands.

The Galapagos Islands have been visited before, and H. M. S. *Petrel* collected natural history specimens extensively in 1875. Among these were the following seven *Arachnida*, which were described and delineated by Mr. Butler in the *Proc. Zoöl. Soc. London*, 1877:

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| <ol style="list-style-type: none"> 1. <i>Androctonus americens</i> Linn. 2. <i>Lycosa indomita</i> Nic. 3. <i>Gasteracantha insulana</i> Thor. 4. <i>Theridium carolinum</i> Butler. | <ol style="list-style-type: none"> 5. <i>Latrodectus apicalis</i> Butler. 6. <i>Epeira cooksonii</i> Butler. 7. <i>Thomisoides utrififormis</i> Butler. |
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Of these, three are represented in our collection, viz, *Gasteracantha insulana*, *Epeira cooksonii*, *Latrodectus apicalis*. Two more specimens, previously described, were found among the species, viz: *Latrodectus scelio* Thorell (the renowned "Katipo" of New Zealand) and *Heteropoda venatoria*, a cosmopolitan in the equatorial and tropical regions.

A species which seems to live in great abundance on these islands is the *Epeira cooksonii* Butler; it is related to our *domicelliorum*, which has undergone on the Pacific coast already a change in its form and coloration, so that Dr. McCook has described it as new—*Ep. vertebrata*. In *Ep. cooksonii* this change is increased, but still the relationship is preserved by the structure of the epigynum.

The following is a list of the material collected at the Galapagos group:

a. Chatham Island:

1. *Gasteracantha insulana* Thorell.
2. *Epeira cooksonii* Butler.
3. *Segestria æquatoria* sp. nov.

b. James Island:

- Gasteracantha insulana* Thorell.
Epeira cooksonii Butler.

c. Charles Island:

4. *Latrodectus scelio* Thorell (Kati-ipo) (young).
5. *Agalena* (immature).
6. *Loxosceles galapagoensis* sp. nov.

Charles Island—Continued.

7. *Filistata oceanea* sp. nov.
8. *Heteropoda venatoria* Lin.
Gasteracantha insulana Thorell.
Epeira cooksonii Butler.

d. Albemarle Island:

- Epeira cooksonii* Butler.
Heteropoda venatoria.

e. Indefatigable Island:

9. *Menemernus galapagoensis* sp. nov.
10. *Latrodectus apicalis* Butler.

In the collection from Lower California we meet again with a majority of well-known species, as our *Epeira labyrinthea* Hentz.; *Gasteracantha caneriformis*, also found in the Southern States of the United States and in California; *Argiope argentata* Fabr., frequently collected in southern Florida, Texas, and California; *Gasteracantha velitaris* Koch, the crab spider of the southern Atlantic States; *Selenops aïssa* Walck., found in Key West, Fla., and the West Indies; *Filistata hibernalis* Hentz., from Alabama. The two new species are *Drassus pacificus* and *Zora californica*.

a. Cerros Islands:

1. *Drassus pacificus* sp. nov.
2. *Epeira labyrinthea* Hentz.

b. Ballenas Bay:

3. *Gasteracantha caneriformis* Lin.
4. *Argiope argentata* Fabr.

c. St. Margarita Island:

5. *Gasteracantha velitaris* C. Koch.
6. *Selenops aïssa* Walck.
7. *Filistata hibernalis* Hentz.
8. *Zora californica* sp. nov.
Epeira labyrinthea.
Argiope argentata.

The material from Clemente Island, California, comprises four species, of which only one is new:

1. *Filistata capitata* Hentz., a common form in the Southern States.
2. *Latrodectus mactans* Walck., a species which had been caught also at the Straits of Magellan by the *Albatross*, and which is cosmopolitan.
3. *Argiope argentata*, several times mentioned above.
4. *Lycosa fallax*, a new species.

Résumé.

From—	Species.	New.	Already known.
Abrolhos Islands	8	4	4
Magellan Straits	10	7	3
Galapagos Islands	10	5	5
Lower California	8	2	6
California	4	1	3

The scorpions collected on this occasion are six in number of species, and belong to the three families into which the order of Scorpions is divided.

Family BUTHIDÆ.

1. *Centrurus biaculeatus* Luc.

From Panama; a species, cosmopolitan, and frequently found in countries bordering the Atlantic Ocean below 25° north latitude.

2. *Centruroides exilicauda* Wood.

From St. Margarita Island, Lower California; a common species in that region.

3. *Centruroides luctifer* sp. nov.

From Indefatigable Island, Galapagos; a very interesting species.

Family PANDINIDÆ.

4. *Vejovis galapagoensis* sp. nov.

From Chatham Island, Galapagos.

5. *Broteas formosus* sp. nov.

From St. Margarita Island, Lower California.

Family BOTHRIURIDÆ.

6. *Timogenes niger* sp. nov.

A mutilated and broken specimen from Montevideo, Uruguay.

This is, so far, the result of my investigation, and I hope to have an opportunity to describe and figure the new species of this interesting collection.

MYRIAPODA.

BY C. H. BOLLMAN.

1. *Spiroboldus sanctæ-luciæ* sp. nov.

DIAGNOSIS.—Allied to *Spiroboldus surinamensis* Bollman; but the horse-shoe-like markings only prominent along the middle line of segment; no deep sulcus behind repugnatorial pore; legs light yellow.

Type.—No. 590.

HAB.—Port Castries, St. Lucia, Windward Islands.

Description.—Segments dark brown, posterior borders lighter; ante-